



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/750,287

12/29/2000

Jeffery R. Eck

088305-0116

6508

7590

11/21/2005

William T. Ellis  
FOLEY & LARDNER  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, DC 20007-5109

EXAMINER

SINGH, RACHNA

ART UNIT

PAPER NUMBER

2176

DATE MAILED: 11/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/750,287	<b>Applicant(s)</b> ECK, JEFFERY R.	
	<b>Examiner</b> Rachna Singh	<b>Art Unit</b> 2176	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 October 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. This action is responsive to communications: Amendment filed 10/05/05.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/05/05 has been entered.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 4-6, 10-15, 24, and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Fong et al., US 6,678,867 B2, 1/13/04 (continuation of application filed on 12/23/97).

In reference to claims 1, 24, and 25, Fong teaches a method for providing a graphical user interface for creating and editing a mapping of a first structural description to a second structural description. Fong's system comprises the following:

Art Unit: 2176

-Inputting a structural description of a first system that communicates over a protocol having a first structured format, wherein the first structured format can be in XML.

Inputting a structural description of a second system that communicates over a protocol having a second structured format, wherein the second structured format can be in

XML. See abstract and columns 31-32. Compare to ***“receiving an XML environment”***.

-Accepting interactive user input, to be processed by a map creator, for making plural changes to any of the component mapping values. The transformation rules are

processed by a map creator to create the transformation map. The user selects an input source file for transformation to a target output file using a map specified by the

user. See column 3, lines 54-67 and column 4, lines 1-10. The transformation can be from SGML to HTML or another structured format such as a database information

format. See column 3, lines 20-31. Compare to ***“creating a target model and a source model in accordance with predetermined rules, with one of said models***

***being an XML model and the other of said models being a flat file or data base***

***model; creating business rules for moving data from a source file to a target file for a plurality of defining items in the source model”***.

-Processing the transformation using a map created by the user. See column 4, lines 1-11. Compare to ***“creating a run file with file names for generating said map”***.

In reference to claim 4, Fong teaches an attribute list for HTML and SGML (can also be XML) tags. See figures 8A-1 through 8B.

In reference to claim 5, Fong teaches accepting interactive user input, to be processed by a map creator, for making plural changes to any of the component mapping values. The transformation rules are processed by a map creator to create the transformation map. The user selects an input source file for transformation to a target output file using a map specified by the user. See column 3, lines 54-67 and column 4, lines 1-10. The transformation can be from SGML to HTML or another structured format such as a database information format. See column 3, lines 20-31.

In reference to claim 6, Fong teaches displaying the source and target model conversions. See figure 12B and 12C.

In reference to claim 10, Fong teaches that the processing the transformation using the map includes source and target models and files and the access files. See columns 3-4.

In reference to claim 11, Fong teaches inputting a structural description of a first system that communicates over a protocol having a first structured format, wherein the first structured format can be in XML. Inputting a structural description of a second system that communicates over a protocol having a second structured format, wherein the second structured format can be in XML. See abstract and columns 31-32.

In reference to claim 12, Fong teaches that the user can choose a source input and a target output and process the transformation. See abstract.

In reference to claim 13, Fong teaches accepting interactive user input, to be processed by a map creator, for making plural changes to any of the component mapping values. The transformation rules are processed by a map creator to create the

transformation map. The user selects an input source file for transformation to a target output file using a map specified by the user. See column 3, lines 54-67 and column 4, lines 1-10. The transformation can be from SGML to HTML or another structured format such as a database information format. See column 3, lines 20-31.

In reference to claim 14, Fong teaches inputting a structural description of a first system that communicates over a protocol having a first structured format, wherein the first structured format can be in XML. Inputting a structural description of a second system that communicates over a protocol having a second structured format, wherein the second structured format can be in XML. See abstract and columns 31-32.

In reference to claim 12, Fong teaches that the user can choose a source input and a target output and process the transformation. See abstract.

In reference to claim 15, see figure 12C in which Fong teaches defining the item names in the source and target model.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 2-3, 7-9, and 16-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fong et al., US 6,678,867 B2, 1/13/04 (continuation of application filed on 12/23/97) in view of Kutay et al., US 2002/0026461 A1, 2/28/02 (provisional filed 6/5/00).

In reference to claims 2 and 3, Fong does not teach creating test data; however, Kutay teaches testing to verify access to the data reference structure. See figure 9B and page 7. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Fong and Kutay since both Fong and Kutay teach modifying a source model to a target model in accordance with rules. Furthermore, allowing a user to test the “defining items” or data reference structures would provide better consistency for all of the attributes.

In reference to claims 16-17, Kutay teaches that the source model can be any of a flat file, an XML file, or any other format. See page 7, paragraphs [0104]-[0119]. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Fong and Kutay since both Fong and Kutay teach modifying a source model to a target model in accordance with rules. Furthermore, allowing a user to test the “defining items” or data reference structures would provide better consistency for all of the attributes.

In reference to claim 18, Kutay teaches that the test data is based on the source model which can be an XML file. See page 7, paragraphs [0104]-[0119]. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Fong and Kutay since both Fong and Kutay teach modifying a source model to a target model in accordance with rules. Furthermore, allowing a user to test the “defining items” or data reference structures would provide better consistency for all of the attributes.

In reference to claim 19, Fong does not teach that the XML message includes a preamble or prolog; however it was well known in the art at the time of the invention for an XML message to contain information about the DTD, schema, or character set being used in the message thus one of ordinary skill in the art could have included such information in the message.

In reference to claims 20-23, Kutay teaches that the test data is based on the source model which can be an XML file. See page 7, paragraphs [0104]-[0119]. The data reference structure and the connection to the data source are verified thus the attributes are checked according to the source document that could be an XML type. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Fong and Kutay since both Fong and Kutay teach modifying a source model to a target model in accordance with rules. Furthermore, allowing a user to test the "defining items" or data reference structures would provide better consistency for all of the attributes.

In reference to claims 7-9, Fong does not teach a drag and drop mechanism in which an element can be moved; however, Kutay does. Kutay teaches dragging and dropping tags displayed in windows within an interface to map the input from the view to process data model structure. See figure 11E, 12, 16C, 16F and page 9. It would have been obvious to combine the drag and drop feature of Kutay in a system of Fong since both Fong and Kutay map source elements to target elements in order to produce an output. Providing a drag and drop functionality provides for an easy method for a user to carry out operations in a graphical user environment.



### ***Response to Arguments***

7. Applicant's arguments and amendments filed 10/05/05 have been fully considered but they are not persuasive.

Applicant has amended claims to recite, "automatically creating a target model and a source model by only using predetermined rules and the received XML environment". Applicant argues Fong does not teach the map is created automatically based on predetermined rules and the present invention only receives input from the user relating to what is being mapped not the mapping process itself as taught by Fong. Fong teaches receiving an XML environment See abstract and columns 31-32. Upon receiving the XML environment, the system accepts user input for making plural changes to any of the component mapping values. Those transformation rules are processed by the map creator to create a transformation map which then serves as the "predetermine rules". At this point, the user selects an input source file for transformation to a target output file using the transformation map and XML environment. In other words, Fong teaches using predetermined rules to create a target model, the difference between Fong and the present invention is not in "only using predetermined rules" but rather the intermediate step Fong teaches before those predetermined rules are applied to a source model. There does not appear to be any claim limitation prohibiting interactive user mapping prior to the actual creation of the target model by using predetermined rules and the XML environment.

In view of the comments above, the rejection is maintained.

### ***Conclusion***

Art Unit: 2176

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rachna Singh whose telephone number is 571-272-4099. The examiner can normally be reached on M-F (8:30AM-6:00PM). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on 571-272-4136.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RS  
11/10/05

*William L. Bashore*  
WILLIAM BASHORE  
PRIMARY EXAMINER  
11/10/2005